

Li-IQ Casual

Entry Level Laptop Battery Protection

The Li-IQ Casual is a plug-and-play dongle which is able to automatically detect that your laptop is near fully charged (85-90%) and turn off charging. The dongle first lets your laptop partially discharge, before charging it again, all close to or within your battery's optimal charging range. This "exercise" prevents lithium-ion batteries from overcharging and overheating, the two leading causes for battery degradation and wear.



Designed and optimized for laptop charging, the Li-IQ Casual automatically detects and adjusts its charge protection algorithms based on your laptop and its various charging behaviours (in use, lid closed, sleep mode/screensaver etc.).

Due to its USB-C backbone the dongle is able to support standard USB-C PD charge profiles, up to and including 65W charging. This ensures that the Li-IQ Casual can operate with the majority of USB-C laptops available on the market.

Specifications

Laptop Requirements

- Operating System: N/A (Agnostic)
- Power Input Connector: USB-C
- Power Input Type: USB-C PD only
- Input Voltage: 9V to 20V
- Input Current: 0.5A to 3.25A
- Maximum Charging Wattage: 65W
- Minimum Charging Wattage: 10W

Power Supply

- Power Supply Type: USB-C PD
- Output Voltage: 9V to 20V output
- Output Current: Up to 3.25A output
- Output Wattage: 10W to 65W output (PD contract dependent)

Li-IQ Casual

- Connection Direction: Unidirectional (LED arrow indicated)
- USB Power: USB-C PD only
- Input Voltage*: 9V to 20V
- Input Current: 0.5A to 3.25A
- Output Voltage: 9V to 20V (exact voltage determined by PDO's of power supply)
- Output Current: 0.5A to 3.25A (exact current determined by PDO's of power supply)
- Wattage: 10W to 65W output (PD contract dependent)
- USB Data: No, data lines not connected/passed through

*The Li-IQ Casual accepts and passes through 5V at 0.5A during the power contract negotiation (as per USB-C PD specification). However, because the majority of laptops do not accept a 5V PD contract as an acceptable power input (even at 3A) the Li-IQ Casual does not accept a 5V only capable power supply and requires 9V or greater from the attached power supply.

Li-IQ Casual to Laptop Cable

- Type: USB-C, male to male
- Recommended Power Rating: 65W capable
- Data: USB 2.0 minimum
- Length: Up to 9.8ft (3m)
- Connector angle: N/A (Agnostic)
- Note: cable is not included as standard with dongle

Ports & Connectors

- 1 x USB-C Power In Port (to charger)
- 1 x USB-C Battery Modulation Port (to laptop)

LED Indicators

- 1 x Charger Connection Status LED
- 1 x Laptop Connection Status LED
- 1 x Modulation Status LED (charge/discharge status)

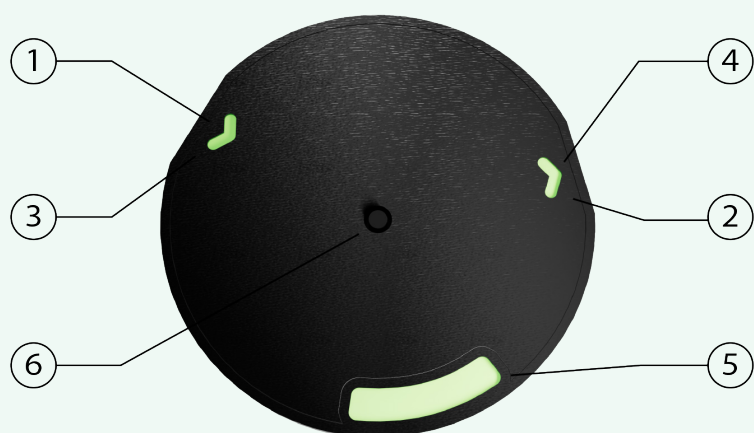
Button/User Interface

- 1 x Configuration Button

Dimensions

- Diameter: 2.74 inches (69.60 mm)
- Height: 0.625 inches (15.88 mm)
- Weight: 1.48 oz (42 grams)

Port Clarification



- ① USB-C Power In Port (to charger)
- ② USB-C Battery Modulation Port (to laptop)
- ③ Charger Connection Status LED
- ④ Laptop Connection Status LED
- ⑤ Modulation Status LED (charge/discharge status)
- ⑥ Configuration Button